

## Mbox EXTreme® Media Server

The Mbox EXTreme® Media Server from PRG takes digital lighting to the next level with its advanced integration of video and automated lighting. Powerful real time rendering, built-in effects, and a true 3D environment provide the ultimate tools for combining pre-recorded video and still images to create stunning visual imagery that can be displayed by any projector, LED wall, plasma screen or low-res LED lighting fixture.

### VERSATILE CONTROL

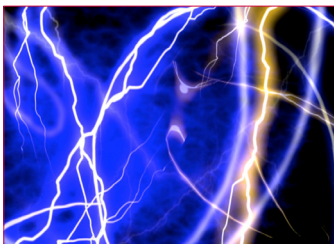
The Mbox EXTreme server can be programmed and operated directly from Art-Net or DMX512-based moving light consoles, allowing ease of coordination between video/image effects and lighting cues. Intricate Mbox EXTreme sequences can be generated instantly on site without the need for offline video processing, rendering or editing. A stock library gets the system up and running quickly with a wide variety of video clips, still images and 3D objects. All of these items can be recalled instantly. In addition, designers can easily add their own video, images or objects and see the results immediately.

### FLEXIBLE APPLICATION

Mbox EXTreme can be used in a variety of applications from displaying custom logos at tradeshows to incorporating subtle backgrounds for broadcast television or high intensity cueing for live performances. Mbox EXTreme can also be configured to output video information as DMX-over-Ethernet to control low-resolution LED fixtures, allowing designers to create broad strokes of color and realistic video effects.

## Superior Imaging

Mbox EXTreme guarantees superior image quality with its pixel-for-pixel resolution. Designers can manipulate and play back content without affecting the source material, making frame loss or distortion in video playback virtually nonexistent. To ensure smooth output and professional results, each Mbox EXTreme is packaged with a hardware dimmer module that suppresses the stage output during system startup and shutdown.



## Features

- RACK WITH UPS, I/O MODULE, AND AUXILIARY PANEL.
- DUAL VIDEO OUTPUT PER SERVER WITH THREE MODES.
- DIGITAL DUAL I/O MODULE WITH BUILT-IN DMX-TO-ART-NET CONVERSION AND ETHERNET SWITCH. ANALOG (VGA), DVI, AND SDI (SD/HD) STAGE OUTPUTS, DVI PREVIEW OUTPUT.
- ACCEPTS LIVE VIDEO INPUT SDI (HD/SD), COMPOSITE AND FIREWIRE (DV).
- 1080P HD VIDEO PLAYBACK.
- MOVABLE CAMERA VIEWPOINT.
- AMBIENT AND DIRECTIONAL LIGHT SOURCES.
- INTERACTIVE, SCALABLE LAYERS THAT CAN BE CONFIGURED AS BACKGROUNDS OR 3D GEOMETRIC OBJECTS.
- DIGITAL GOBOS THAT CAN BE USED AS BACKGROUNDS, MASKS, OR FOR ADVANCED LAYER BLENDING EFFECTS.
- IMAGE TILING AND EDGE-BLENDING FOR MULTIPLE-SERVER CONFIGURATIONS.
- PIXEL MAPPING.
- MAPPING OF TEXTURES (VIDEOS OR STILL IMAGES) TO 3D OBJECTS AND DIGITAL GOBOS.
- REAL-TIME CROSSFADES AND TRANSITIONS BETWEEN VIDEOS, IMAGES, AND OBJECTS ON THE SAME LAYER.
- EFFECTS INCLUDING BLUR, PIXELATE, LED WALL, EXPOSURE AND ALPHA ADJUSTMENT CAN BE APPLIED INDIVIDUALLY OR IN COMBINATION.
- ADVANCED VIDEO PLAYBACK WITH DIRECTION, SPEED, AND IN-POINT/OUT-POINT CONTROL.
- USER-CONFIGURABLE ASPECT RATIO AND OUTPUT RESOLUTION CONTROL.
- PLAYBACK OF MOVIE CONTENT WITH ALPHA CHANNEL.
- PLAYBACK OF BOTH EMBEDDED AND EXTERNAL AUDIO.
- INTERACTIVE SCENIC TRACKING FOR ANY PARAMETER.

# Mbox EXTreme® Media Server Specifications

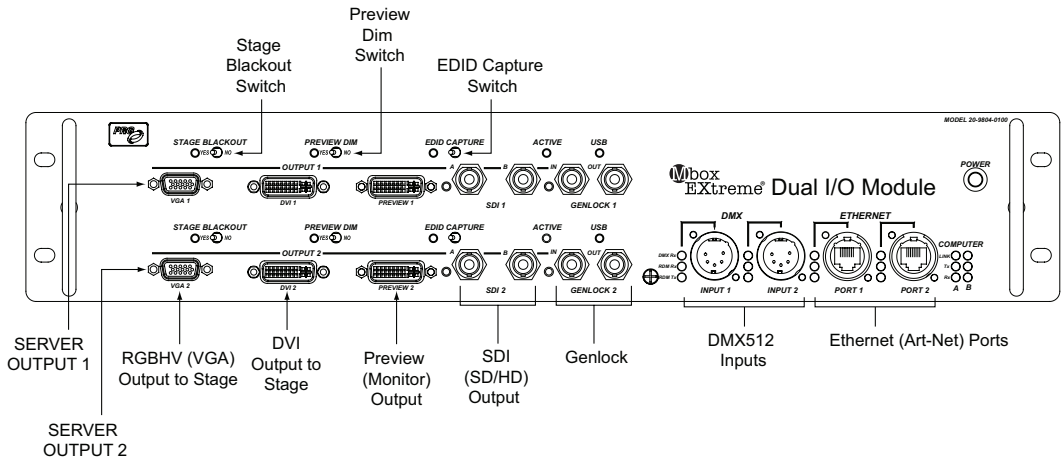
## HOW IT WORKS

The process is simple: Original source material is loaded onto the server in advance of programming. (Designers also have access to a library of stock videos and images that come standard on the server.) The designer or programmer manipulates the media using a DMX512-based console, leaving the actual source material unaltered. When the desired playback looks are achieved, the designer either records them into the cue list on the console or applies them on the fly during the show. It's that easy.

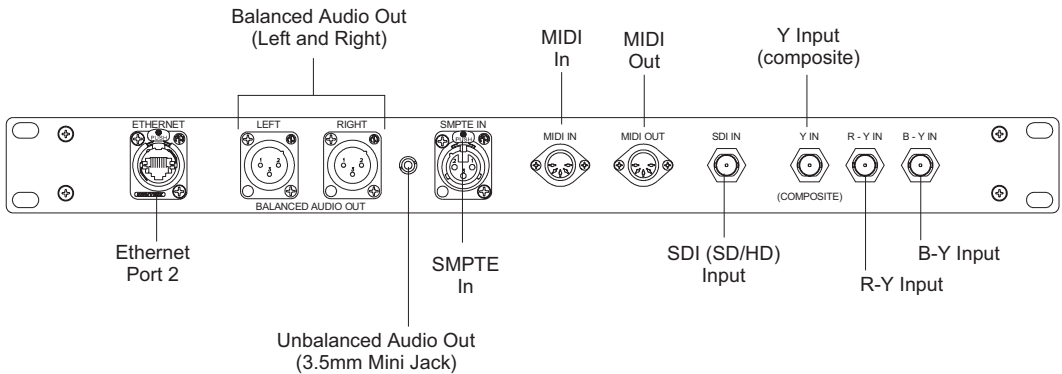
## SOFTWARE/HARDWARE

The Mbox EXTreme software runs on a rack-mounted Apple® Macintosh® computer controlled by DMX512 or Art-Net. All video, still images and 3D objects are stored on directly on the Mbox EXTreme hard drive, allowing instant access to any file. The Mbox EXTreme is a single server rack unit equipped with two video outputs that can be used to drive a projector, LED wall or plasma screen. The included dual I/O module provides analog (RGBHV), DVI, SDI and HD-SDI outputs for video, along with DVI preview capability.

## Dual I/O Module



## Aux Panel



## Controllable Elements

### MASTER:

- Intensity
- Orbit X and Y
- Dolly, Pitch and Yaw
- Camera Roll (Spin)
- Theatrical Framing Shutters (four modes)
- Edge Blending
- Tiling (with overlap control)
- Master Effect (2)
- Master Color
- Fog and Decay
- Pixel Mapping output level
- Audio output level

### LAYER: TEXTURE/OBJECT

- Opacity
- Texture
- Object
- Texture Effect (2 per layer)
- Object Effect (2 per layer)
- Color
- Playmode and Playspeed
- Frame Blending
- Transitions (Type and Timing)
- X, Y, Z Position, Rotations, and Scale
- Sync (Timecode and Layer-to-Layer)
- Layer Blending Modes (8 total)
- Adjustable Motion Damping

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## 3D

The Mbox EXTreme 3D environment provides designers with advanced tools for creating multidimensional scenery and effects in real time. Lighting, camera positioning, and up to twelve layers of shapes and backgrounds, all work together to create endless possibilities.

